

# TESORO AVON MOTEMS COMPLIANCE PROJECT

July 16, 2015

Tom Lu - Martinez Refinery Manager

Matt Buell – Martinez Environmental Manager

#### **TESORO MARTINEZ – AT A GLANCE**



- 650 employees -- using a "multiplier" effect this means 5,200 jobs that rely on our business
- 700 1500 contract employees (depending on projects)
- \$97 million in annual payroll; \$16 million in Property Tax paid in 2014
- One of five Bay Area refineries supplying 15-20% of local fuel supplies
- Also one of the four refineries that have continuously operated here since ca. 1915
- Marine transportation accounts for 20% of refinery petroleum product movement

#### **PROJECT OVERVIEW**



- MOTEMS Standards were developed to ensure that California Marine Oil Terminals meet the highest levels of safe operation and protection of the environment
- This project will consist only of upgrading the existing Avon Marine Terminal to current MOTEMS Standards - with no additional capacity for product transfers
- The Avon Marine Terminal does not bring in crude oil a lease condition does not allow crude unloading without State approval
- State Lands Commission requires project completion by June 2017

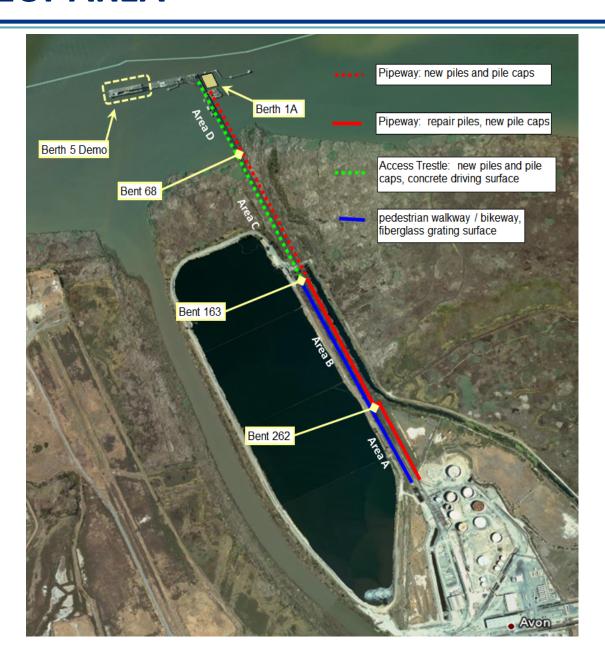
## **MARTINEZ REFINERY MARINE TERMINALS**





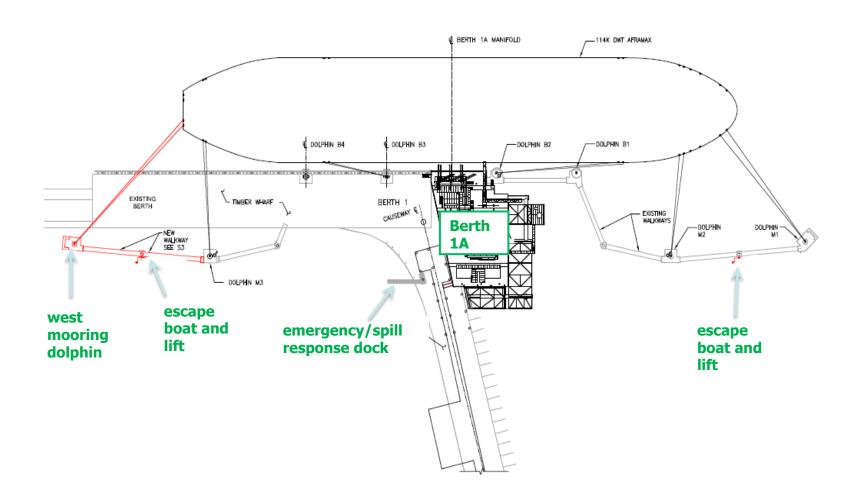
# **PROJECT AREA**





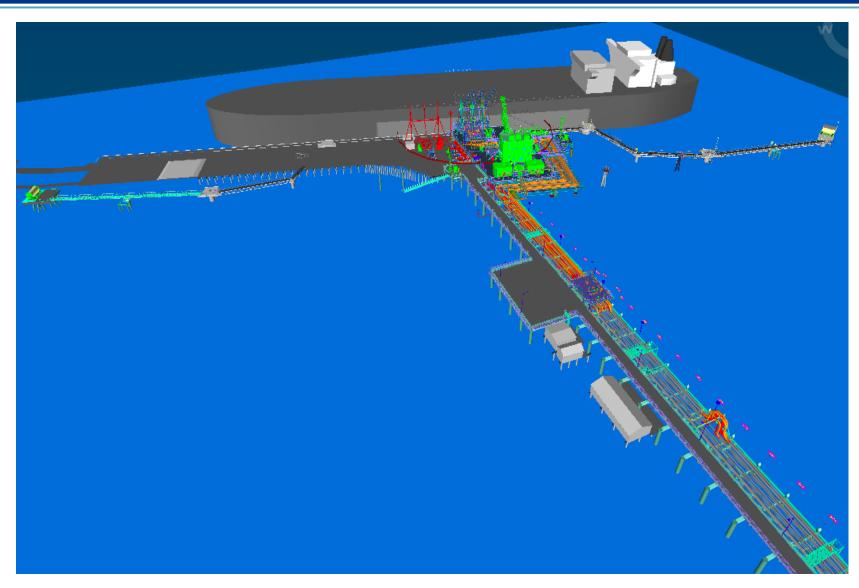
### **NEW TERMINAL PROJECT ELEMENTS**





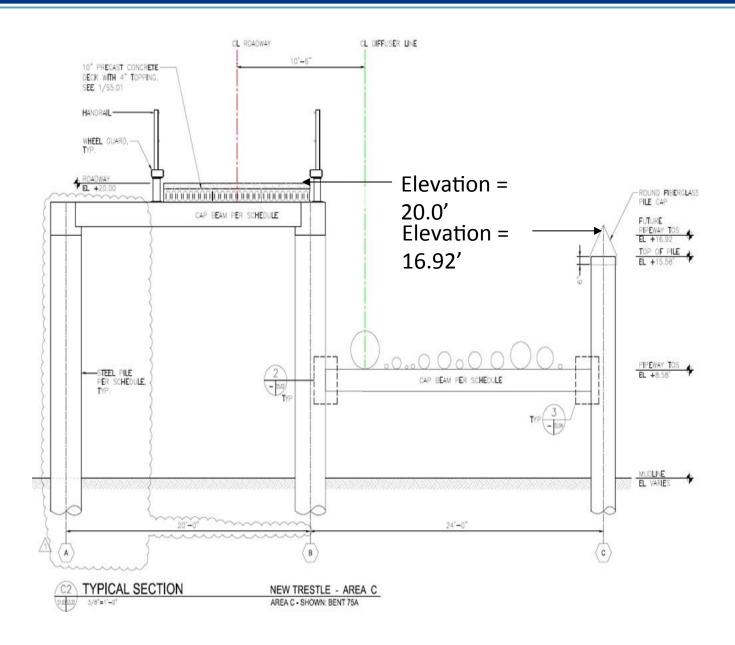
# **BERTH 1A LAYOUT SHOWING BERTHED SHIP**





# **TYPICAL NEW TRESTLE "BENT"**



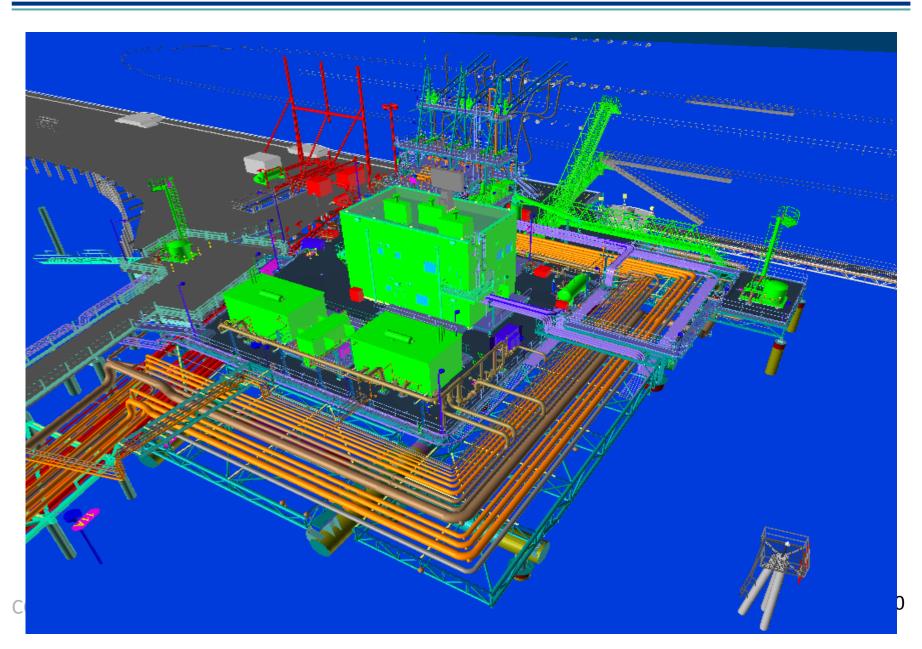


#### STATE OF ART PROJECT DESIGN



- Designed by Marine Terminal Engineering Experts
  - Anvil Electrical & Piping
  - Ben C. Gerwick / COWI Structural
  - Langan Treadwell Rollo Geotechnical
- Utilized three dimensional Computer Aided Design (CAD)
- Extensive Design Quality Assurance (QA) by multiple engineering specialists
- Design included MOTEMS required oversight and approval by State Lands Commission Marine Facilities Division engineers
- Design, drawings and calculations also evaluated by the BCDC Engineering Criteria Review Board





#### PROJECT CONSTRUCTION SCHEDULE



- In-Water Work Window: August 2015 November 2015
  - Install 401 new steel pilings
- Berth 1A: December 2015 August 2016
  - Install pile caps, deck modules, above deck equipment, structures, instrumentation and electrical
  - Complete "above water" construction of mooring dolphin, oil spill response dock and escape boat lifts
- Approach Trestle: December 2015 November 2016
  - Install new pile caps and other structural steel
  - Install new roadway and bikeway
  - Demo existing piles / structure
- Cutover to Berth 1A: November 2016 December 2016
  - Shutdown wharf operations and perform all piping tie-ins
  - Perform all final system walkdowns and mechanical/instrument checks
  - Perform final training
  - Commission Berth 1A

#### **SAFETY ASPECTS**



- Rigorous seismic design criteria required by MOTEMS (that exceed normal local earthquake building codes)
- Rapid pipeline shut-off valves to significantly decrease response time for operators
- Enhanced emergency response capabilities
  - Additional fire fighting and spill response equipment
  - New response and escape boat docks
- New state-of-the-art Operations Control Building
- Systems for remote rapid emergency ship releases, tension monitoring of mooring lines and allision avoidance are also required by lease conditions

#### **JURISDICTIONAL AGENCY AUTHORIZATIONS**



- State Lands Commission CEQA EIR Certification / 30 year lease renewal
- Project Permitting
  - US Army Corps of Engineers (USACE) Nationwide Permit
  - Biological Opinions from Service Agencies
    - US Fish and Wildlife Service
    - National Marine Fisheries Service
  - Regional Water Quality Control Board (RWQCB) Water Quality Certification
  - BCDC Major Permit application scheduled for consideration hearing on July 16

All agency authorizations restrict in-water construction to a Work Window of August 1 through November 30 for fish protection.

### **ADDITIONAL ENVIRONMENTAL BENEFITS**



- Removal of approximately 900 creosote treated piles
- Funding for McNabney Marsh Restoration (East Bay Regional Park adjacent to I-680 near Benicia - Martinez Bridge)
- Enhancement of California Clapper Rail habitat
- Provides more than 10 acres of enhanced Salt Marsh Harvest
  Mouse habitat in perpetuity
- Required stormwater treatment mitigation for new terminal approach road
- Required Osprey nest relocation

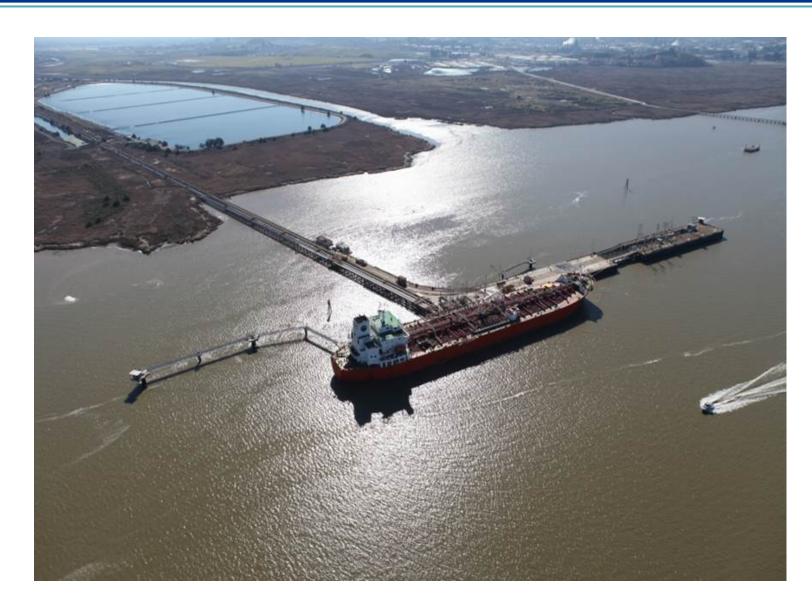
#### **COMPLIANCE WITH BCDC PLANS & POLICIES**



- Increases Bay open water surface area by 11,939 square feet
- New Berth 1A, terminal approach road and pipeway supports designed to accommodate future sea level rise per Bay Plan
- Installation of five seismic accelerometers on the new Berth 1A and approach road as requested by the ECRB
- The application before you for consideration today has other "special conditions" – all of which Tesoro has committed to address

# **QUESTIONS?**

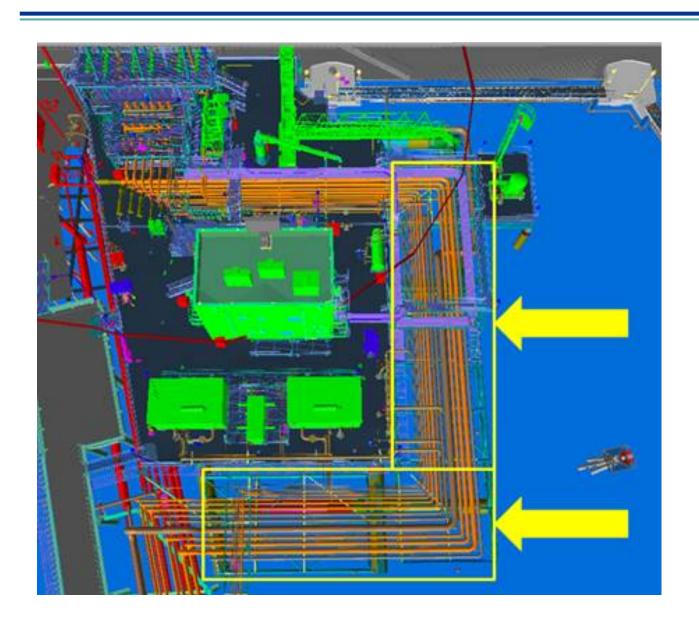




# **End of Presentation**

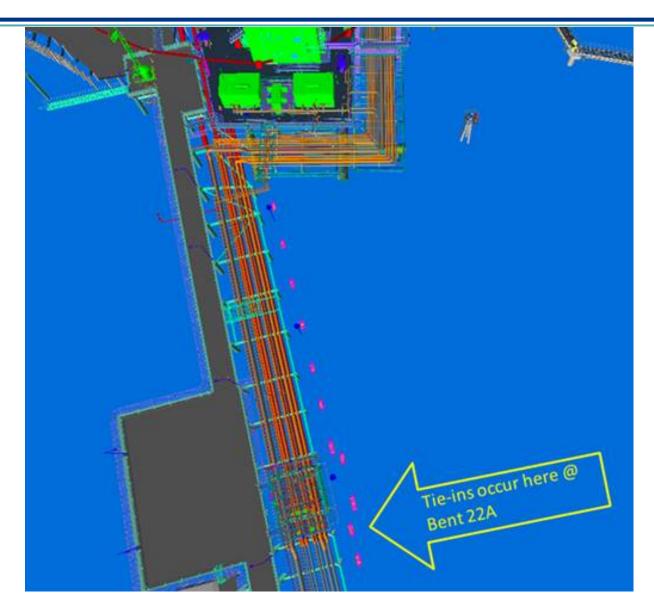
# **NEW BERTH 1A PIPING LAYOUT**





# **NEW BERTH 1A PIPING CONNECTION TIE IN**





# **EXISTING AVON TERMINAL**





# **BCDC JURISDICTION**





CONFIDENTIAL

#### **SHARED VALUE**



Improving the quality of life in areas where we work and live:

- \$500,000+ donated to charities in 2014 alone with focus on
  - STEM Education (science, technology, engineering & math)
  - Public Safety
  - Environmental Conservation & Sustainability
- 2,000+ volunteer hours worked each year
- 15 baseball diamonds & soccer fields used by the community for \$1/year.
- Community Advisory Panel (CAP) existing of 14 members of the community meeting monthly to discuss issues and concerns.

#### **COMMUNITY ENGAGEMENT**



We support more than 50 charities and community organizations,

including:







